

Zefeng (Daniel) Wang

Availability: Full time July 2022 | *No sponsorship required*

7 Wycombe Way, Princeton Junction, NJ
(609) 454-1717 | dnl.wang@gmail.com | zefeng-wang.com
linkedin.com/in/zefeng-daniel-wang | github.com/zefwang

EDUCATION

Northeastern University, Boston, MA

May 2022

Khoury College of Computer Sciences

GPA: 3.82/4.00

Candidate for B.Sc. in Computer Science & Business Administration (Finance) | Minor in Mathematics

Relevant Courses: Algorithms and Data, Object Oriented Design, Statistics and Stochastic Processes, Computer Systems

Honors and Awards: Dean's List, International Scholar, Top 10/Best Rookie Award at Hack Beanpot 2019

COMPUTER KNOWLEDGE

Languages: JavaScript/TypeScript (NodeJS, React), Java, Golang, Python, HTML, CSS, SQL, C,

Tools/Libraries: Docker, Firebase, Google Cloud (Firestore, Functions, Storage), JUnit, Kubernetes, Unix, NumPy, pandas

Miscellaneous: Git, GitHub, JSON, npm, RESTful APIs, XML, YAML

EXPERIENCE

Fall Software Engineering Intern @ Tesla

September – December 2021

- Enhanced observability for multiple microservices (Golang, Python) by implementing distributed tracing in Sentry to identify bottlenecks resulting in significant (>50%) decreases in p95 run time for various requests
- Reduced friction in developer experience by implementing Tilt and Helm charts to run app in local K8s cluster
- Migrating from RabbitMQ to Kafka to improve scalability and reduce downtime for user-facing applications

Engineering Summer Analyst @ Goldman Sachs

June – August 2021

- Productionized financial reporting program and conducted user acceptance testing with product owner
- Revamped API queries to ensure data is more highly available using internal modelling/functional language (PURE)
- Reduced complexity by abstracting functionality and leveraging caching to decrease flakiness and improve speed by 30% for calculator program (IgnitePad)

Software Developer Co-op @ Intuit

May – December 2020

- Improved accessibility of metrics using Java and Go on the Observability team for QuickBooks Online product
- Developed API in Go by implementing schema & CRUD functions on a MySQL database, configuring Elasticsearch index to improve search efficiency, and setting up infrastructure for Kubernetes cluster
- Used Micrometer and Hystrix (Java Spring) to create a filter for unnecessary data to improve readability of metrics
- Adopted Spring's aspect-oriented programming to annotate metrics and decrease code complexity via abstraction

Backend Web Engineer @ BusRight, Inc

November 2019 – November 2020

- Improved web API by adding new features, enforcing test-driven development, and increasing efficiency
- Developed password reset process by adding functionality to get info from database & send emails via SendGrid
- Enforced persistent notifications by writing endpoints to get/send notifications to collections in Cloud Firestore
- Added Cloud Functions for daily database backup and profile picture functions triggered on user deletion/creation

Project Lead, Developer @ Sandbox at Northeastern

September 2019 - Present

- Led team of five to build web-based game application for research client used in study with >200 participants
- Created multiple applications, including a mobile app used in a memory study and a web app with > 50,000 users

Core Team – Sponsorship, Tech @ HackBeanpot Inc

May 2019 – Present

- Organized annual hackathon for ~200 students, raising >\$20,000 and improving technical infrastructure
- Led small team in revamping judging system to be more holistic by fixing scheduling algorithm and user-facing site

PROJECTS

GratitudeNU (TypeScript, NextJS, NestJS, PostgreSQL)

January – April 2021

- Developed full-stack application for users to play game together concurrently using NestJS Server-Sent Events
- Implemented API using NestJS (Express.js) service/controller architecture to handle multiple users' interactions
- Designed UI in NextJS (React) including an interactive game interface and React hook for managing sockets

MGH Video Journal (React Native, TypeScript)

December 2020 – January 2021

- Built mobile app using React Native that allows study participants to record videos that are uploaded to Dropbox
- Implemented Google Cloud Function to authenticate users and sends files from Cloud Storage via Dropbox API

SearchNEU (NodeJS, React, TypeScript)

September 2019 – August 2020

- Migrated data to relational database (PostgreSQL) by creating data models using Sequelize ORM
- Developed toggle and dropdown components in React to improve loading times ~30x and enable filtered search
- Refactored web scraper using Cheerio (jQuery) and enforced reliability using Jest framework and snapshot testing